## SEQUENCE LISTING

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     Ragghianti, James J
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- Ala Ala Ser Asn Asn Leu Val Val Ser Phe Gly Glu Met Leu Ile Asp 50 55 60
- Phe Val Pro Asp Val Ala Gly Leu Ser Leu Ala Glu Ser Gly Gly Phe 65 70 75 80
- Val Lys Ala Pro Gly Gly Ala Pro Ala Asn Val Ala Cys Ala Ile Ala 85 90 95
- Lys Leu Gly Gly Ser Ser Ala Phe Val Gly Lys Phe Gly Asp Asp Glu 100 105 110
- Phe Gly His Met Leu Val Asn Ile Leu Lys Gln Asn Asn Val Asn Ser 115 120 125
- Glu Gly Cys Leu Phe Asp Lys His Ala Arg Thr Ala Leu Ala Phe Val 130 135 140
- Thr Leu Lys His Asp Gly Glu Arg Glu Phe Met Phe Tyr Arg Asn Pro 145 150 155 160
- Ser Ala Asp Met Leu Leu Thr Glu Ala Glu Leu Asp Leu Gly Leu Val 165 170 175
- Arg Arg Ala Lys Val Phe His Tyr Gly Ser Ile Ser Leu Ile Ser Glu 180 185 190
- Pro Cys Arg Ser Ala His Met Ala Ala Met Arg Ala Ala Lys Ala Ala 195 200 205
- Gly Val Leu Cys Ser Tyr Asp Pro Asn Val Arg Leu Pro Leu Trp Pro 210 215 220
- Ser Pro Asp Ala Ala Arg Glu Gly Ile Leu Ser Ile Trp Lys Glu Ala 225 230 235 240
- Asp Phe Ile Lys Val Ser Asp Asp Glu Val Ala Phe Leu Thr Arg Gly 245 250 255
- Asp Ala Asn Asp Glu Lys Asn Val Leu Ser Leu Trp Phe Asp Gly Leu 260 265 270
- Lys Leu Val Val Thr Asp Gly Asp Lys Gly Cys Arg Tyr Phe Thr 275 280 285
- Lys Asp Phe Lys Gly Ser Val Pro Gly Phe Lys Val Asp Thr Val Asp 290 295 300
- Thr Thr Gly Ala Gly Asp Ala Phe Val Gly Ser Leu Leu Val Asn Val 305 310 315 320
- Ala Lys Asp Asp Ser Ile Phe His Asn Glu Glu Lys Leu Arg Glu Ala 325 330 335

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Tyr Gly Ser Ile Ser Leu Ile Ala Glu Pro Cys Arg Thr Ala His Leu
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Pro Thr Val Ala Gly Val Ser Leu Ala Glu Ala Pro Ala Phe Val Lys 65 70 75 80

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Val Pro Thr Val Ser Gly Val Ser Leu Ala Glu Ala Pro Gly Phe Leu

Lys Ala Pro Gly Gly Ala Pro Ala Asn Val Ala Ile Ala Val Ser Arg

Leu Gly Gly Lys Ala Ala Phe Val Gly Lys Leu Gly Asp Asp Glu Phe

Gly His Met Leu Ala Gly Ile Leu Lys Glu Asn Gly Val Arg Ala Asp

Gly Ile Asn Phe Asp Gln Gly Ala Arg Thr Ala Leu Ala Phe Val Thr 120 115

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Ala Asp Met Leu Leu Lys Pro Glu Glu Leu Asn Leu Glu Leu Ile Arg 145 150 155 160

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Lys Ile Asp Asp Glu Ser Ala Leu Ser Leu Trp His Pro Asn Leu Lys
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Asn Gly Leu Ile Val Ser Phe Gly Glu Met Leu Ile Asp Phe Val Pro 50 60

Thr Val Ser Gly Val Ser Leu Ala Glu Ala Pro Gly Phe Leu Lys Ala 65 70 75 80

Pro Gly Gly Ala Pro Ala Asn Val Ala Ile Ala Val Ala Arg Leu Gly 85 90 95

Met Leu Ala Gly Ile Leu Lys Glu Asn Asp Val Arg Ser Asp Gly Ile 115 120 125

Asn Phe Asp Gln Gly Ala Arg Thr Ala Leu Ala Phe Val Thr Leu Arg 130 135 140

Ala Asp Gly Glu Arg Glu Phe Met Phe Tyr Arg Asn Pro Ser Ala Asp 145 150 155 160

Met Leu Leu Thr Pro Glu Asp Leu Asn Leu Glu Leu Ile Arg Ser Ala 165 170 175

Lys Val Phe His Tyr Gly Ser Ile Ser Leu Ile Val Glu Pro Cys Arg 180 185 190

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Asp Val Ala Gly Val Ser Leu Ala Glu Ser Gly Gly Phe Val Lys Ala 35 40 45

Pro Gly Gly Ala Pro Ala Asn Val Ala Cys Ala Ile Ser Lys Leu Gly Gly Ser Ser Ala Phe Ile Gly Lys Phe Gly Asp Asp Glu Phe Gly His Met Leu Val Glu Ile Leu Lys Gln Asn Gly Val Asn Ala Glu Gly Cys Leu Phe Asp Gln His Ala Arg Thr Ala Leu Ala Phe Val Thr Leu Lys Ser Asn Gly Glu Arg Glu Phe Met Phe Tyr Arg Asn Pro Ser Ala Asp 120 Met Leu Leu Thr Glu Ala Glu Leu Asn Leu Asp Leu Ile Arg Arg Ala 135 130 Arg Ile Phe His Tyr Gly Ser Ile Ser Leu Ile Thr Glu Pro Cys Arg 155 Ser Ala His Val Ala Ala Thr Arg Ala Ala Lys Ser Ala Gly Ile Leu 165 Cys Ser Tyr Asp Pro Asn Val Arg Leu Pro Leu Trp Pro Ser Ala Gln 185 180 Ala Ala Arg Asp Gly Ile Met Ser Ile Trp Lys Glu Ala Asp Phe Ile 195 Lys Val Ser Asp Glu Glu Val Ala Phe Leu Thr Gln Gly Asp Ala Thr 215 Asp Glu Lys Asn Val Leu Ser Leu Trp Phe Glu Gly Leu Lys Leu Leu 230 235 Ile Val Thr Asp Gly Glu Lys Gly Cys Arg Tyr Phe Thr Lys Asp Phe 245 Lys Gly Ser Val Pro Gly Tyr Ser Val Asn Thr Val Asp Thr Thr Gly 265 Ala Gly Asp Ala Phe Val Gly Ser Leu Leu Val Ser Val Ser Lys Asp 280 Asp Ser Ile Phe Tyr Asn Glu Ala Lys Leu Arg Glu Val Leu Gln Phe 295 Ser Asn Ala Cys Gly Ala Ile Cys Thr Thr Lys Lys Gly Ala Ile Pro 310 Ala Leu Pro Thr Thr Ala Thr Ala Leu Glu Leu Ile Ser Lys Gly Ser

Asn 337

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330

<212> PRT <213> Lycopersicon esculentum

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Glu Ala Pro Gly Phe Leu Lys Ala Pro Gly Gly Ala Pro Ala Asn Val 35 40 45

Ala Ile Ala Val Thr Arg Leu Gly Gly Lys Ser Ala Phe Val Gly Lys 50 55 60

Leu Gly Asp Asp Glu Phe Gly His Met Leu Ala Gly Ile Leu Lys Thr 65 70 75 80

Asn Gly Val Gln Ala Glu Gly Ile Asn Phe Asp Lys Gly Ala Arg Thr 85 90 95

Ala Leu Ala Phe Val Thr Leu Arg Ala Asp Gly Glu Arg Glu Phe Met 100 105 110

Phe Tyr Arg Asn Pro Ser Ala Asp Met Leu Leu Thr Pro Ala Glu Leu 115 120 125

Asn Leu Asp Leu Ile Arg Ser Ala Lys Val Phe His Tyr Gly Ser Ile 130 135 140

Val Ala Lys Glu Ala Gly Ala Leu Leu Ser Tyr Asp Pro Asn Leu Arg 165 170 175

Leu Pro Leu Trp Pro Ser Ala Glu Glu Ala Lys Lys Gln Ile Lys Ser 180 185 190

Ile Trp Asp Ser Ala Asp Val Ile Lys Val Ser Asp Val Glu Leu Glu
195 200 205

Phe Leu Thr Gly Ser Asn Lys Ile Asp Asp Glu Ser Ala Met Ser Leu 210 215 220

Trp His Pro Asn Leu Lys Leu Leu Leu Val Thr Leu Gly Glu Lys Gly 225 230 235 240

Cys Asn Tyr Tyr Thr Lys Lys Phe His Gly Thr Val Gly Gly Phe His 245 250 255

Val Lys Thr Val Asp Thr Thr Gly Ala Gly Asp Ser Phe Val Gly Ala 260 265 270

Leu Leu Thr Lys Ile Val Asp Asp Gln Thr Ile Leu Glu Asp Glu Ala 275 280 285

Arg Leu Lys Glu Val Leu Arg Phe Ser Cys Ala Cys Gly Ala Ile Thr 290 295 300 Thr Thr Lys Lys Gly Ala Ile Pro Ala Leu Pro Thr Ala Ser Glu Ala 305 310 315 320

Leu Thr Leu Leu Lys Gly Gly Ala 325